

# **Amendments to the Specification:**

In paragraph [041] the equation is:

$$\begin{aligned} m\ddot{x} + c_x \dot{x} + \left( k_x - m \left( \Omega_y^2 + \Omega_z^2 \right) \right) x + m \left( \Omega_x \Omega_y - \dot{\Omega}_z \right) y \\ = F_d + 2m\Omega_z \dot{y} \\ m\ddot{y} - c_y \dot{y} + \left( k_y - m \left( \Omega_x^2 + \Omega_z^2 \right) \right) y + m \left( \Omega_x \Omega_y + \dot{\Omega}_z \right) x \\ - 2m\Omega_z \dot{x} \end{aligned}$$

In paragraph [058] the equation is:

$$\vec{a}_A = \vec{a}_B + \dot{\vec{\Omega}} \times \vec{r}_B + \vec{\Omega} \times \left( \vec{\Omega} \times \vec{r}_B \right) + 2\vec{\Omega} \times \vec{v}_B$$

In paragraph [060] the equation is:

$$\begin{aligned}
 m_1 \vec{a}_1 &= \vec{F}_1 + \vec{F}_d - 2m_1 \vec{\Omega} \times \vec{v}_1 - m_1 \vec{\Omega} \\
 &\quad \times \left( \vec{\Omega} \times \vec{r}_1 \right) - m_1 \dot{\vec{\Omega}} \times \vec{r}_1 \\
 m_2 \vec{a}_2 &= \vec{F}_2 - 2m_2 \vec{\Omega} \times \vec{v}_2 - m_2 \vec{\Omega} \\
 &\quad \times \left( \vec{\Omega} \times \vec{r}_2 \right) - m_2 \dot{\vec{\Omega}} \times \vec{r}_2 \\
 m_3 \vec{a}_3 &= \vec{F}_3 - 2m_3 \vec{\Omega} \times \vec{v}_3 - m_3 \vec{\Omega} \\
 &\quad \times \left( \vec{\Omega} \times \vec{r}_3 \right) - m_3 \dot{\vec{\Omega}} \times \vec{r}_3
 \end{aligned}$$

In paragraph [061] the equation is:

$$\begin{aligned}
 & m_1 \ddot{x}_1 + c_{1x} \dot{x}_1 + k_{1x} x_1 \\
 & = k_{2x} (x_2 - x_1) + m_1 \Omega_z^2 x_1 + F_d(t) \\
 & (m_2 + m_3) \ddot{x}_2 + (c_{2x} + c_{3x}) \dot{x}_2 + k_{2x} (x_2 - x_1) \\
 & = (m_2 + m_3) \Omega_z^2 x_2 + 2m_2 \Omega_z \dot{y}_2 + 2m_3 \Omega_z \dot{y}_3 \\
 & + m_2 \dot{\Omega}_z y_2 + m_3 \dot{\Omega}_z y_3 \\
 & m_2 \ddot{y}_2 + c_{2y} \dot{y}_2 + k_{2y} y_2 \\
 & = k_{3y} (y_3 - y_2) + m_2 \Omega_z^2 y_2 - 2m_2 \Omega_z \dot{x}_2 - m_2 \dot{\Omega}_z x_2 \\
 & m_3 \ddot{y}_3 + c_{3y} \dot{y}_3 + k_{3y} (y_3 + y_2) \\
 & = m_3 \Omega_z^2 y_3 - 2m_3 \Omega_z \dot{x}_3 - m_3 \dot{\Omega}_z x_3
 \end{aligned}$$

In paragraph [067] the equation is:

$$k_{1x} = \frac{4}{2} \left( \frac{1}{2} \frac{3EI}{\frac{L_{1x}^3}{2}} \right) = \frac{2Et\omega^3}{L_{1x}^3}$$

In paragraph [069] the equation is:

$$k_{2x} = \frac{2Et\omega^3}{L_{2x}^3}, \quad k_{2y} = \frac{2Et\omega^3}{L_{2y}^3}$$

In paragraph [071] the equation is:

$$k_{3y} = \frac{4}{3} \frac{Etw^3}{L_{3y}^3}$$

In paragraph [075] the equation is:

$$c_{1x} = \mu_{eff} \frac{A_1}{Z_0} + \mu_{eff} \frac{2N_{comb^l comb^t}}{y_{comb}}$$

In paragraph [077] the equation is:

$$c_{2x} = c_{2y} = \mu_{eff} \frac{A_2}{Z_0}$$

In paragraph [078] the equation is:

$$c_{3x} = \mu_{eff} \frac{A_3}{z_0} + \mu_{eff} \frac{2N_{cap^l cap^t}}{y_{cap}}$$

In paragraph [079] the equation is:

$$c_{3y} = \mu_{eff} \frac{A_3}{z_0} + \mu_{eff} \frac{7N_{cap^l cap^t^3}}{y_{cap}^3}$$

In paragraph [087] the equation is:

$$\begin{aligned} m_1 \ddot{x}_1 + c_{1x} \dot{x}_1 + k_{1x} x_1 &= k_{2x} (x_2 - x_1) + F_d \\ (m_2 + m_3) \ddot{x}_2 + c_{2x} \dot{x}_2 + k_{2x} x_2 &= k_{2x} x_1 \end{aligned}$$

In paragraph [088] the equation is:

$$X_1 = \frac{F_0}{k_{1x}} x \frac{1 - \left( \frac{w}{w_{2x}} \right)^2 + jw \frac{c_{2x}}{k_{2x}}}{\left[ 1 + \frac{k_{2x}}{k_{1x}} - \left( \frac{w}{w_{1x}} \right)^2 + jw \frac{c_{1x}}{k_{1x}} \right] \left[ 1 - \left( \frac{w}{w_{2x}} \right)^2 + jw \frac{c_{2x}}{k_{2x}} \right] - \frac{k_{2x}}{k_{1x}}}$$

$$X_2 = \frac{F_0}{k_1} \frac{1}{\left[ 1 + \frac{k_{2x}}{k_{1x}} - \left( \frac{w}{w_{1x}} \right)^2 + jw \frac{c_{1x}}{k_{1x}} \right] \left[ 1 - \left( \frac{w}{w_{2x}} \right)^2 + jw \frac{c_{2x}}{k_{2x}} \right] - \frac{k_{2x}}{k_{1x}}}$$

In paragraph [095] the equation is:

$$m_2 \ddot{y}_2 + c_{2y} \dot{y}_2 + k_{2y} y_2 = k_{3y} (y_3 - y_2) + 2m_2 \Omega_z \dot{x}_2$$

$$m_3 \ddot{y}_3 + c_{3y} \dot{y}_3 + k_{3y} y_3 = k_{3y} y_2 + 2m_3 \Omega_z \dot{x}_2$$